

CLAIMS

What is claimed is:

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1. A coaxial connector adapted to be soldered to a coaxial cable, comprising:
- a connector head housing with a recess having a wall with slots so as to be elastic in a radial direction, the recess adapted to receive an end portion of an outer conductor of the coaxial cable; and
 - an inner connector conductor for contacting an inner conductor of the coaxial cable,
 - wherein an inside diameter of the recess is equal to a smallest outside diameter of the outer conductor of the coaxial cable.
2. The connector of claim 1, wherein the recess contacts and clamps the end portion of an outer conductor of the coaxial cable.
3. The connector of claim 1, further including a solder reservoir with solder disposed on an inside surface of the wall at least in a region of the wall corresponding to a nominal position of a front edge of the end portion of the outer conductor of the coaxial cable.
4. The connector of claim 1, wherein at least a first section of the wall where the end portion of the outer conductor of the coaxial cable is received, has a reduced wall thickness as compared to a remaining section of the wall.

5. The connector of claim 3, wherein the solder reservoir is arranged in form of a circumferential groove disposed in the wall.
6. The connector of claim 1, wherein the wall includes openings distributed about a circumference of the wall for visually monitoring a soldering operation between the coaxial connector and the coaxial cable.
7. The connector of claim 3, wherein a width of the slots is selected so that capillary action causes the solder to flow into the slots independent of an orientation of the coaxial connector.
8. The connector of claim 3, wherein at least one additional solder reservoir is arranged on an outside surface of the wall and at a height of the slots.
9. The connector of claim 3, wherein at least a portion of a length of the slots is surrounded by a sleeve adapted to be soldered to the wall.
10. The connector of claim 9, wherein the sleeve is pressed on the connector head housing in a predefined position so as to cover the slots in the wall at least over a portion of the length of the slots.

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11. The connector of claim 8, wherein a further solder reservoir is disposed in an outside annular shoulder of the wall and the sleeve contacts the further solder reservoir.
12. The connector of claim 9, wherein the sleeve is positively-locking connected with the connector head housing.
13. The connector of claim 12, wherein the sleeve is screwed onto the connector head housing.
14. The connector of claim 9, wherein the sleeve has a ring-shaped inner groove located at least at a height corresponding to a height of end portions of the slots and adapted to receive an additional solder reservoir.
15. The connector of claim 1, wherein a solder reservoir in the form of a solder foil is disposed between a wall surface facing the end portion of the outer conductor of the coaxial cable and the end portion of the outer conductor.
16. The connector of claim 1, wherein at least an inside surface of the wall is wetted with a flux.
17. The connector of claim 1, wherein at least a region of the wall that is to be soldered, is silvered and/or tinned.

18. The connector of claim 3, wherein an outer conductor of the coaxial cable is helically corrugated, with the wall of the recess being formed as a helical profile that is at least partially complementary to the helically corrugated profile of the outer conductor of the coaxial cable, and wherein the solder reservoir extends over at least a portion of a length of the helical wall profile.
19. The connector of claim 1, wherein the inner connector conductor is adapted to be soldered to the inner conductor of the coaxial cable.
20. The connector of claim 19, wherein the inner connector conductor includes slots so as to be elastically deformable in the radial direction and at least one inner solder reservoir for soldering the inner connector conductor to the inner conductor of the coaxial cable.
21. The connector of claim 20, wherein the inner solder reservoir includes a solder wire ring provided with a flux.
22. The connector of claim 3, wherein the solder reservoir includes a solder wire ring provided with a flux.
23. The connector of claim 8, wherein the additional solder reservoir includes a solder wire ring provided with a flux.

24. The connector of claim 20, wherein the further solder reservoir includes a solder wire ring provided with a flux.

25. A coaxial connector adapted to be soldered to a coaxial cable, comprising:

- a connector head housing with a recess adapted to receive an end portion of an outer conductor of the coaxial cable, the recess having a wall with openings for supplying molten solder to a circumferential gap formed between the outer conductor of the coaxial cable and an inner wall of the recess; and
- an inner connector conductor adapted to contact an inner conductor of the coaxial cable.